



Touch Panel Controllers

User Manual

Contents

2	Contents	28	IR Capture
3	Introduction	29	Factory Default and System Default
3	Overview	30	On Screen Display
3	Models And Accessories	30	Access On Screen Display
3	Features	30	Startup Menu
3	Programming	30	Settings
4	Application Diagram	30	Status
5	Box Contents	31	IP Settings
6	Specifications	31	Date/Time
7	Physical Description	32	Applications
7	Front Panel	32	Calibration
8	Rear Panel	32	Exit
9	Dimensions	33	Admin Web
10	Mounting	33	Access Admin Web
10	Back Box	33	Login
13	Adjusting Unit On The Wall	33	Configuration
14	Placing Unit Into The Back Box	35	Date and Time
15	Taking Unit Out	36	Applications
16	Cleaning	36	File Storage
17	Connecting	37	E-mail
17	Rear Panel Overview	37	Settings
18	CUEnet (LAN)	38	System
20	PWR IN	38	Password
20	OUT 5 V	39	Backup
21	SERIAL	40	Reset
22	IR/SERIAL	40	License
23	GENERAL I/O	41	Software and Firmware License
24	RELAY	42	Notes
24	AUDIO LINE		
25	CUEwire Device Connection		
26	Download User Application		
26	Overview		
26	Using Cue Visual Composer		
27	Using Admin Web		

Introduction

Overview

The uniCUE touch panel controllers are innovative new kind of product combining touch panel and controller in one box. Everything in the room can be controlled with its integrated control ports. These devices offer cost effective one-box solution for meeting and conference rooms, boardrooms, classrooms, private houses etc. From design point of view these products are fully compatible with cuenium2 touch panel product line. The front case is machined from a single billet of aluminium greatly improving the rigidity of the device.

Active matrix touch screen displays 7" (uniCUE-7-B) or 12" (uniCUE-12-B) diagonal offer resolution 800 x 480 or 1280 x 800 pixels and produce stunning 32-bit (True Color) images. Built-in light sensor automatically adjusts display backlight according ambient light level and motion sensor can resume touch panel from backlight saver mode. The IR sensor located on a front panel can receive IR signal from CUE wireless IR control panels without the need to use any external IR receiver. In addition uniCUEs are equipped with internal IR sensor allowing to capture IR codes.

Wired Ethernet connection provides easy network integration with other CUE units and it allows bi-directional IP control of any manufacturer IP enabled products. The uniCUEs are equipped with following control ports: two bi-directional serial ports RS-232/422/485, four IR /serial outputs (IR signal up to 1.2 MHz), four general I/Os configurable as analog input or digital open collector output and two double-throw contacts relays 24 V.

Both uniCUEs provide video preview right on the touch panel. Streaming or downloaded video can be viewed at any location on the display or in full screen mode. Integrated front panel speakers provide clear audio for streaming media and for internal graphic object feedbacks, voice prompts and other personalized sounds. Built-in microphone allows to use uniCUE as a voice memos recording device. Audio line input and line output located on a rear panel offers the same functionality as integrated microphone and speakers.

Application is created in Cue Visual Composer software where touch panels and controllers are programmed in the same way, which makes it possible to use touch panels as fully functional control units. One universal programming language XPL2 allows to program graphical objects, touch panel layouts, device drivers and other parts of control application. The uniCUEs also offer a web server for setup and configuration provided through a standard web browser.

Models And Accessories

Model	Product Code	Description	Note
uniCUE-7-B	CS0388	Built-in touch panel controller 7"	
uniCUE-12-B	CS0404	Built-in touch panel controller 12"	
Back Box	CS0409	Back box for built-in models	The same for 7" and 12" models

Features

- Wired built-in touch panel controllers
- 7" or 12" active matrix touch screen display
- Resolution 800 x 480 pixels for 7", 1280 x 800 pixels for 12"
- Display colors 32-bit (True Color)
- Wired Ethernet communication
- Built-in microphone and speakers, light and motion sensors
- Built-in IR transmitter and receiver, IR capture sensor
- Control ports
 - Bi-directional serial RS-232/422/485
 - IR /serial outputs (IR up to 1.2 MHz)
 - General I/Os
 - Relays NO-C-NC 24 V
- Aluminium front panel

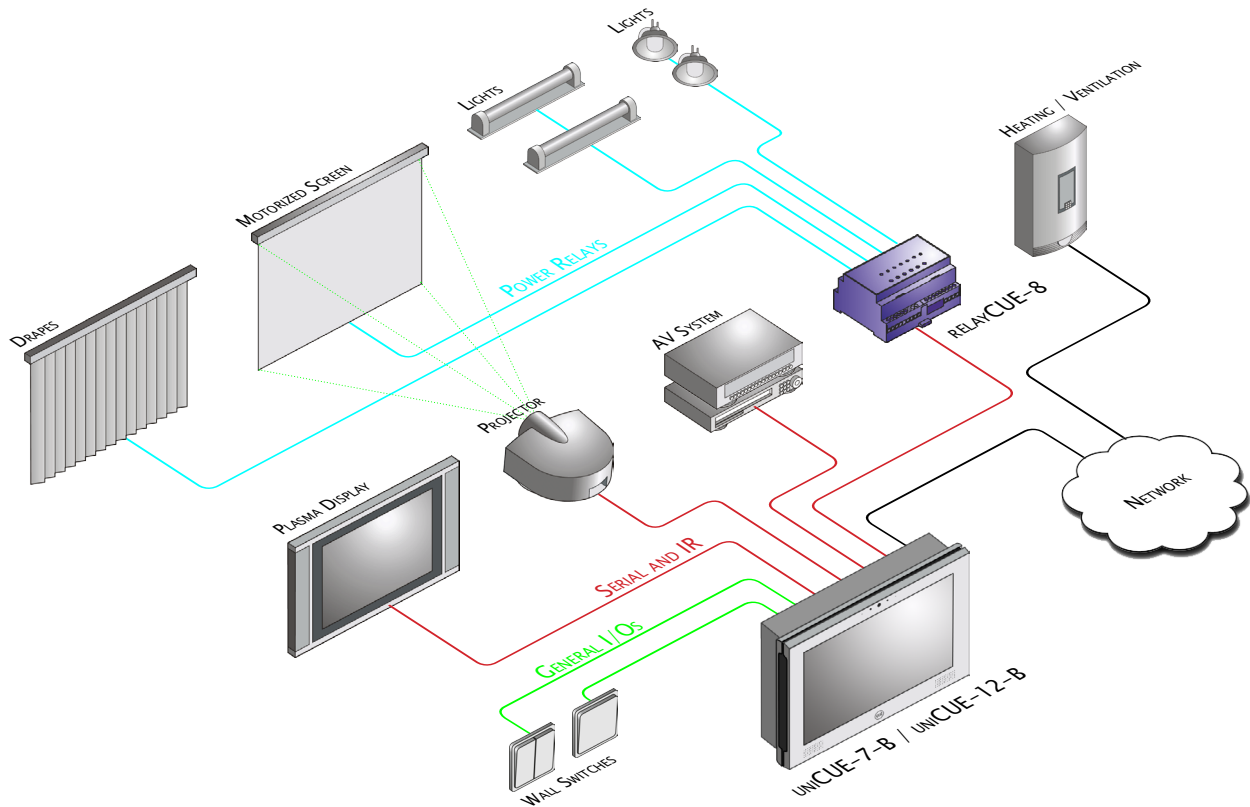
Programming

Both touch panel controllers have to be programmed using Cue Visual Composer. These models are not compatible with Cue System Director.



Application Diagram

Devices can be controlled using IP, serial channels, IR channels, general I/Os and relays. All CUE keypads, keyboards and interfaces can be connected using RS-485 serial ports. In addition uniCUE is fully compatible with other CUEunits such as touch panels and controllers connected via Ethernet.



Following figure describes uniCUE application example.



Box Contents

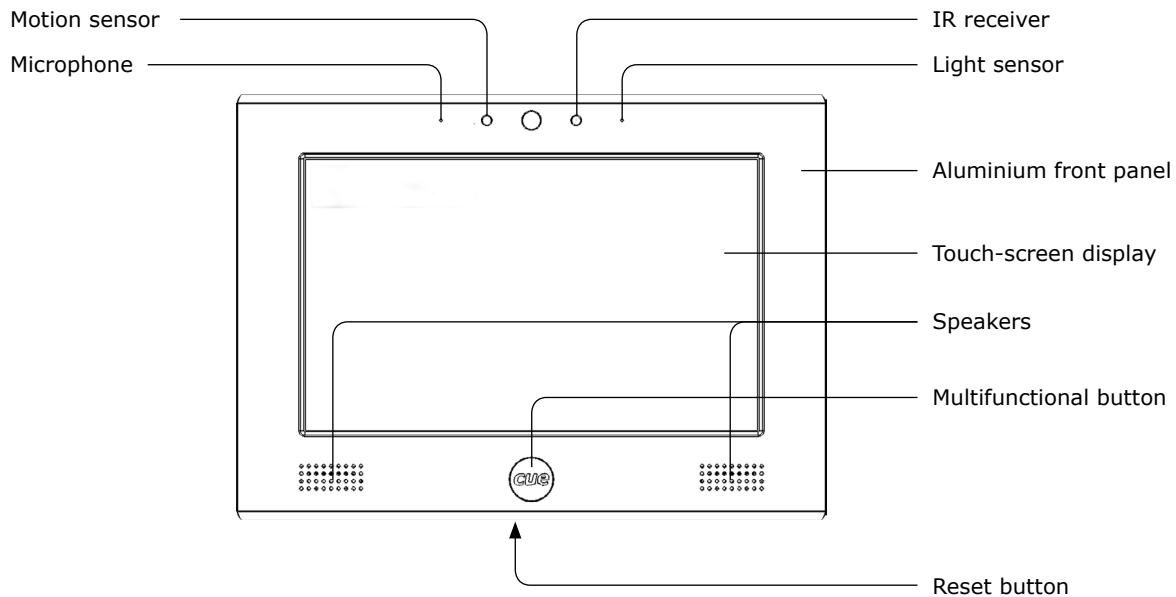
	uniCUE-7-B	uniCUE-12-B
		
Touch panel controller uniCUE-7-B	1	
Touch panel controller uniCUE-12-B		1
Power supply 30 W	1	1
Power cable	1	1
Ethernet cable straight-through	1	1
IR Adapter /i	2	2
Connector set	1	1
CE declaration	1	1
RoHS declaration	1	1
Data Sheet	1	1
Cue System Connector Wiring	1	1

Specifications

Product Name	uniCUE-7-B	uniCUE-12-B
Product Code	CS0388	CS0404
		
Touch-screen display	TFT color active matrix LCD with LED backlit Size 7" / 177.8 mm diagonal, wide screen Resolution 800 x 480 pixels (WVGA) Display colors 32-bit (True Color) Transparency 8-bit Alpha blending White luminance 400 cd/m2 Contrast ratio 1000 : 1 Pixel pitch 0.19 mm Viewing angle $\pm 80^\circ$ horizontal, $\pm 80^\circ$ vertical Resistive membrane touch overlay	TFT color active matrix LCD with LED backlit Size 12.1" / 307.3 mm diagonal, wide screen Resolution 1280 x 800 pixels (WVGA) Display colors 32-bit (True Color) Transparency 8-bit Alpha blending White luminance 400 cd/m2 Contrast ratio 1000 : 1 Pixel pitch 0.204 mm Viewing angle $\pm 80^\circ$ horizontal, $\pm 80^\circ$ vertical Resistive membrane touch overlay
Built-in sensors	Light sensor for automatic backlight dimming Motion sensor for automatic backlight switch on	
Buttons	Multifunctional for power and programmed functions Reset Set factory default	
Memory	256 MB RAM microSD Card min. 4 GB (upgradable)	
Control ports	2x Bi-directional serial RS-232/422/485, 2x 5-pin connector 4x IR /serial output (IR up to 1.2 MHz), 4x 2-pin connector 4x General I/O can be configured as <ul style="list-style-type: none"> Analog input 0 - 5 V Digital open collector output max. 80 mA, 5-pin connector with common ground 2x Relay NO-C-NC, 24 V, max. 0.5 A, 6-pin connector	
Software	XPL2 runtime for application created in Cue Visual Composer Admin Web for setup	
Video	Streaming video preview	
Audio	Built-in microphone Built-in speakers Line in, 3-pin connector Line out, 3-pin connector	
Wired communication	10/100 BaseT LAN, RJ-45 connector	
Infra-red	IR receiver for IR link IR transmitter for direct control IR capture sensor	
Power supply	24 VDC (+/-20%), 15 W, 2-pin connector	
Physical	Aluminium front panel Back box available	
Dimensions	198 x 147 x 60 mm 7.8" x 5.8" x 2.4"	320 x 225 x 61 mm 12.6" x 8.9" x 2.4"
Weight	1.1 kg / 0.5 lb	1.4 kg / 0.6 lb
Environment conditions	Operating temperature 10° to 40° C Storage temperature 0° to 60° C Relative humidity 10% to 90% non-condensing	

Physical Description

Front Panel



Microphone

The microphone is prepared for future use. The functionality depends on a firmware version.

Motion sensor

The Motion sensor resumes touch panel from Backlight Saver mode. This functionality can be enabled / disabled using On Screen Display or Admin Web.

IR Receiver

The built-in IR sensor carries the same functionality as irCUE Receiver or irCUE Receiver 485. This means that touch panel can receive IR signal from CUE wireless IR control panels without the need to use any external IR receiver.

Light Sensor

The Light Sensor automatically adjusts display backlight according ambient light level. This function has to be enabled using On Screen Display or Admin Web.

Touch-screen display

Touch-screen display with active matrix color LCD and resistive membrane touch overlay.

Speakers

The built-in stereo speakers allows to play sounds stored in the touch panels.

Multifunctional button

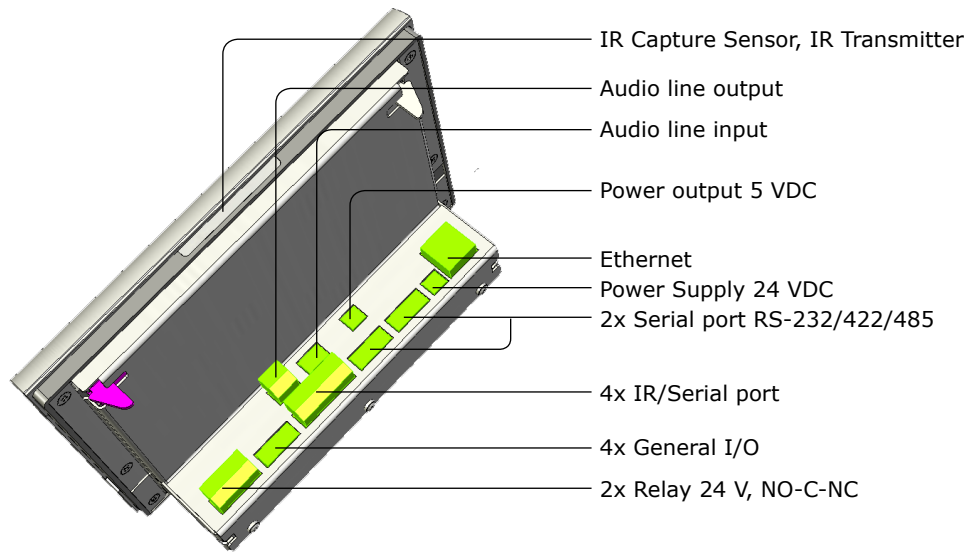
The multifunctional button shows On Screen Display used for touch panel setting. For more details see chapter ON SCREEN DISPLAY.

Reset Button

When pressed the reset of the unit is performed followed by operating system boot. A thin screwdriver is needed for press of this button.

Rear Panel

This chapter describes rear panel equipped with all connectors. For more details about connection see chapter Connecting.



IR Capture Sensor

The built-in IR sensor allows to capture IR codes directly by touch panel. For more details see chapter IR Capture.

IR Transmitter

IR Transmitter allows to transmit IR codes directly from touch panel. Devices can be controlled directly without controller.

Audio

Two 3-pin connectors provide unbalanced audio line input and output.

Power Output 5 VDC

This 2-pin provides 5 VDC output.

Factory Default Button

When pressed the factory default function is performed. For factory default values see chapter Factory Default and System Default. A thin screwdriver is needed for press of this button.

Ethernet

The 10/100 BaseT LAN is a standard network connection using RJ-45 connector. For more details see chapter Connection.

Power Supply 24 VDC

Powering of uniCUE is provided by 24 VDC. Use only delivered power supply.

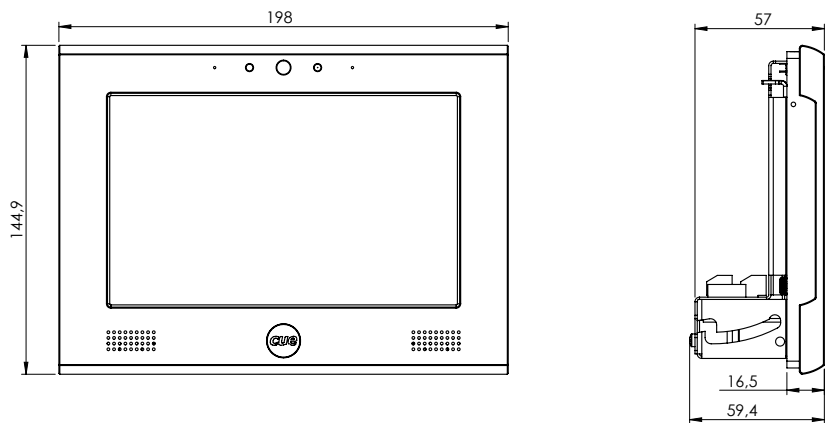
Control Ports

Rear panel of uniCUE is equipped with following control ports

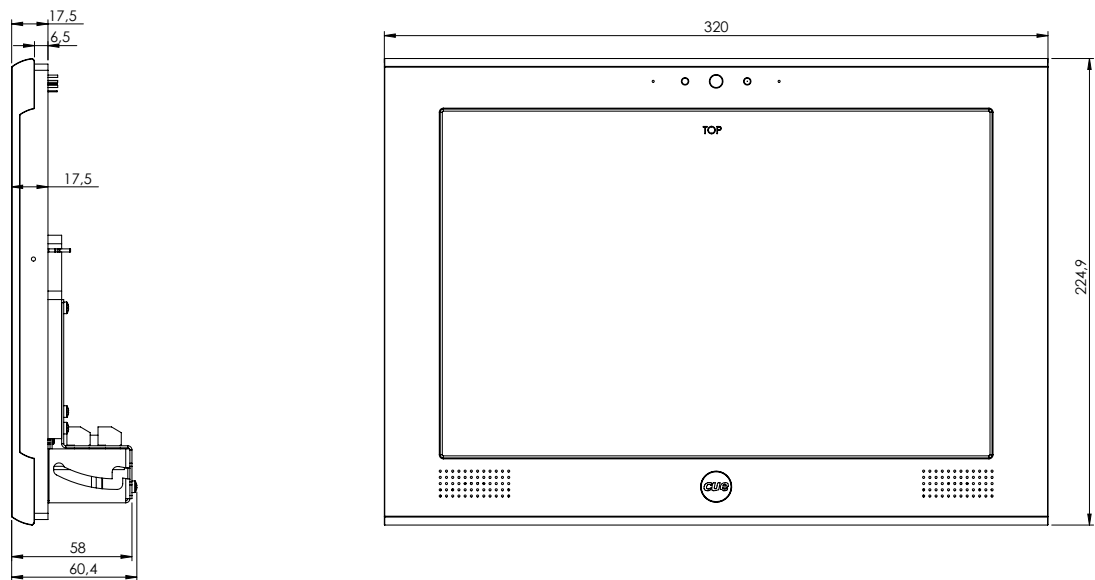
- 2x Serial port RS-232/422/485
- 4x IR/Serial port
- 4x General I/O
- 2x Relay 24 V, NO-C-NC contacts

Dimensions

uniCUE-7-B



uniCUE-12-B



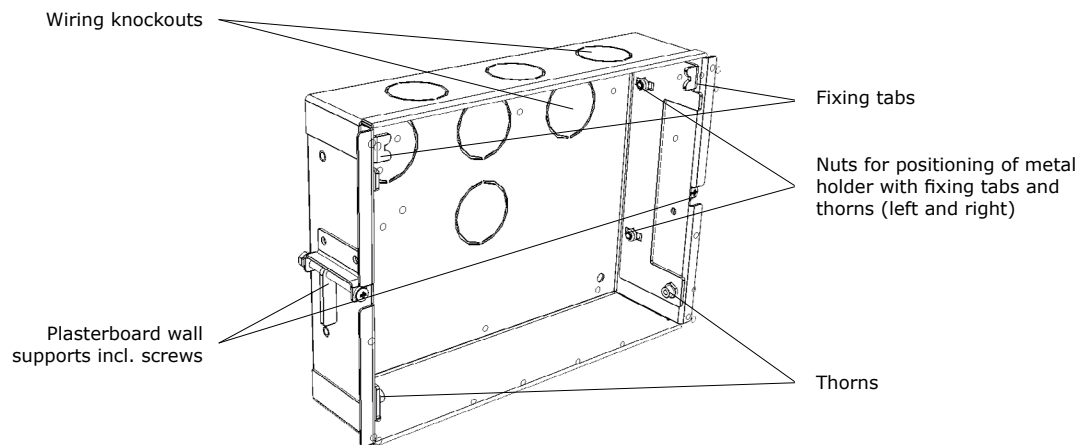
Mounting

Back Box

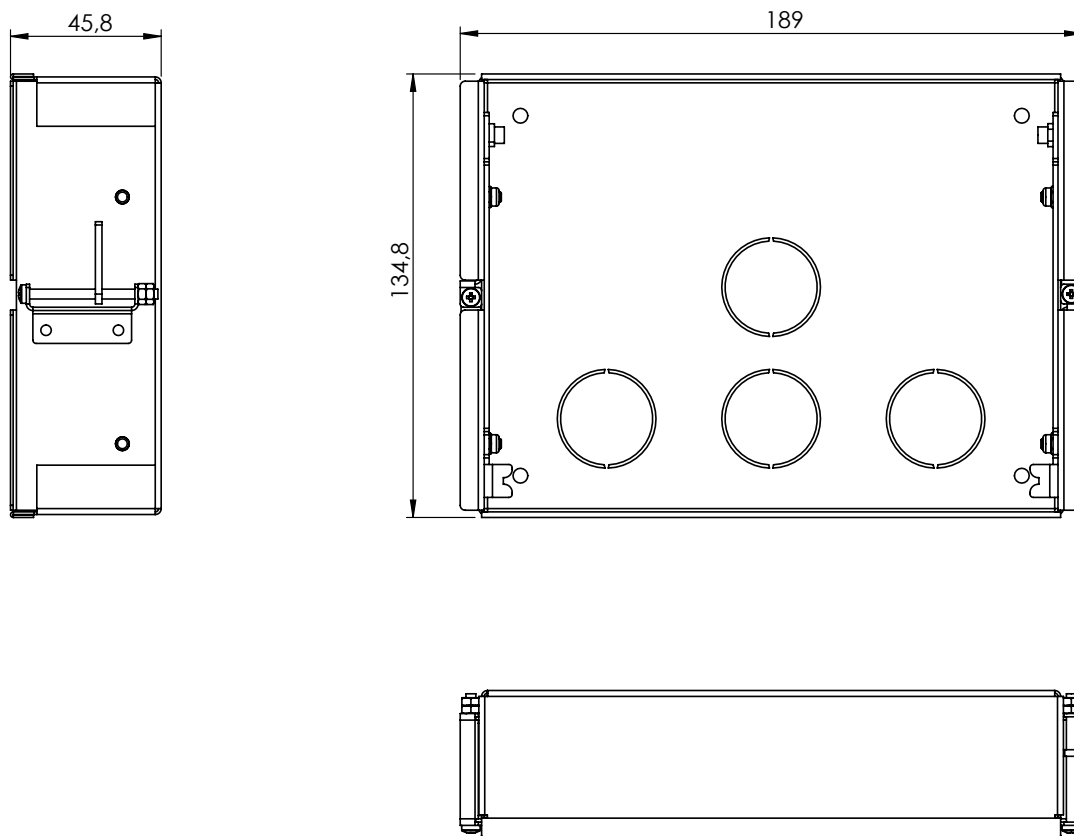
Physical Description

The back box (product code CS0409) provides a steel enclosure for uniCUE-7-B and uniCUE-12-B build-in touch touch panel controllers. It is designed for pre-construction applications.

The back box is equipped with knockouts for cable installation.



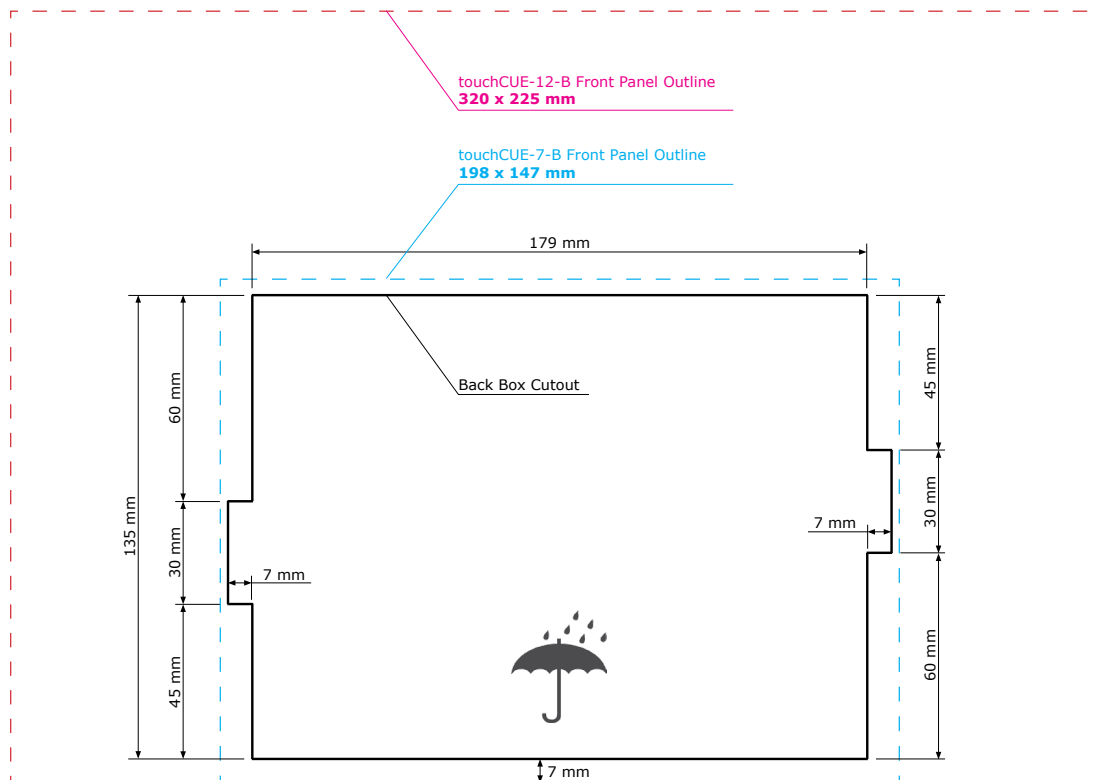
Dimensions



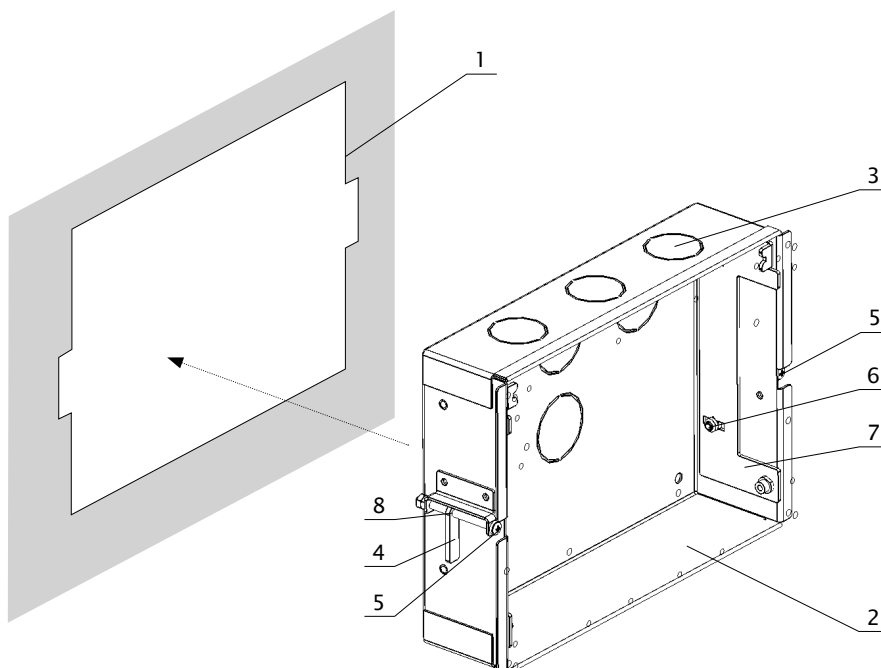
Installation into the Furniture or Plasteboard Wall

Steps are as follows

1. Cut out a hole 1 using the template delivered with back box. If you don't have template, use following dimensions.



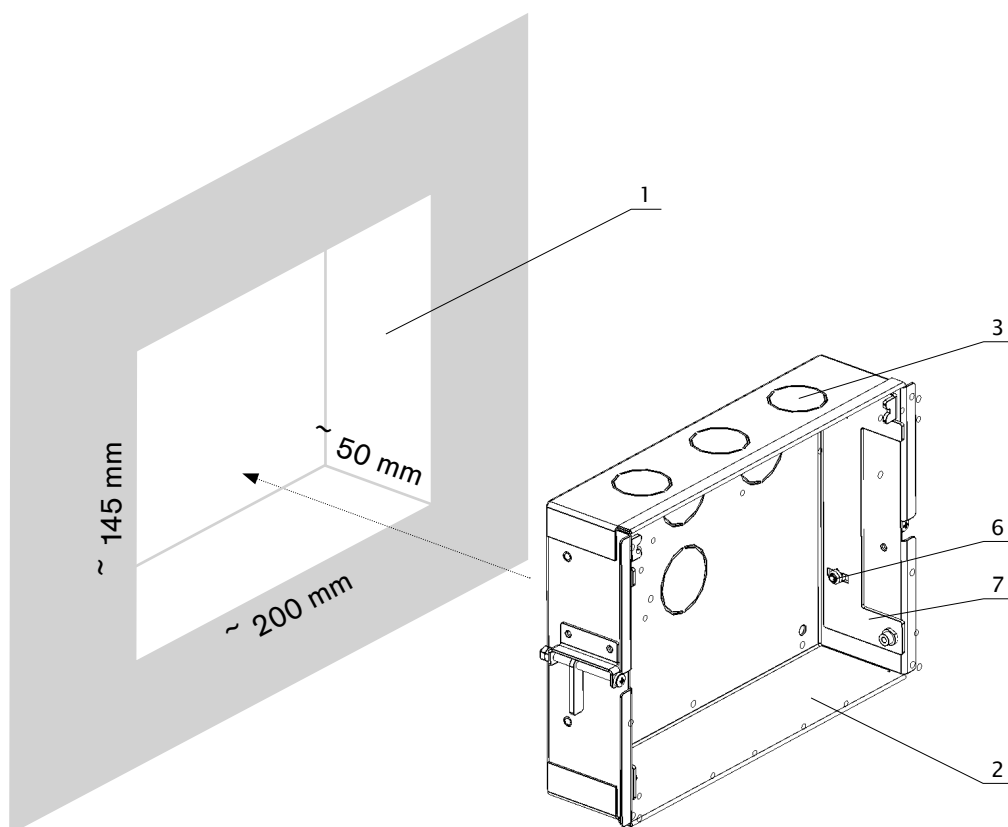
2. Break suitable knockout 3 for comfortable stretch of cable.
3. Make sure that the rubber friction rings 8 lean against the supports 4 and supports 4 are in the right position – left down, right up.
4. Insert the back box 2 into the cut-out 1 and take the cables through broken off knockout.
5. Fasten 2x support 4 to the wall using screws 5.
6. Adjust the metal holder 7 as described in the chapter Adjusting the Panel on the Wall.



Installation into Wet Wall

Steps are as follows

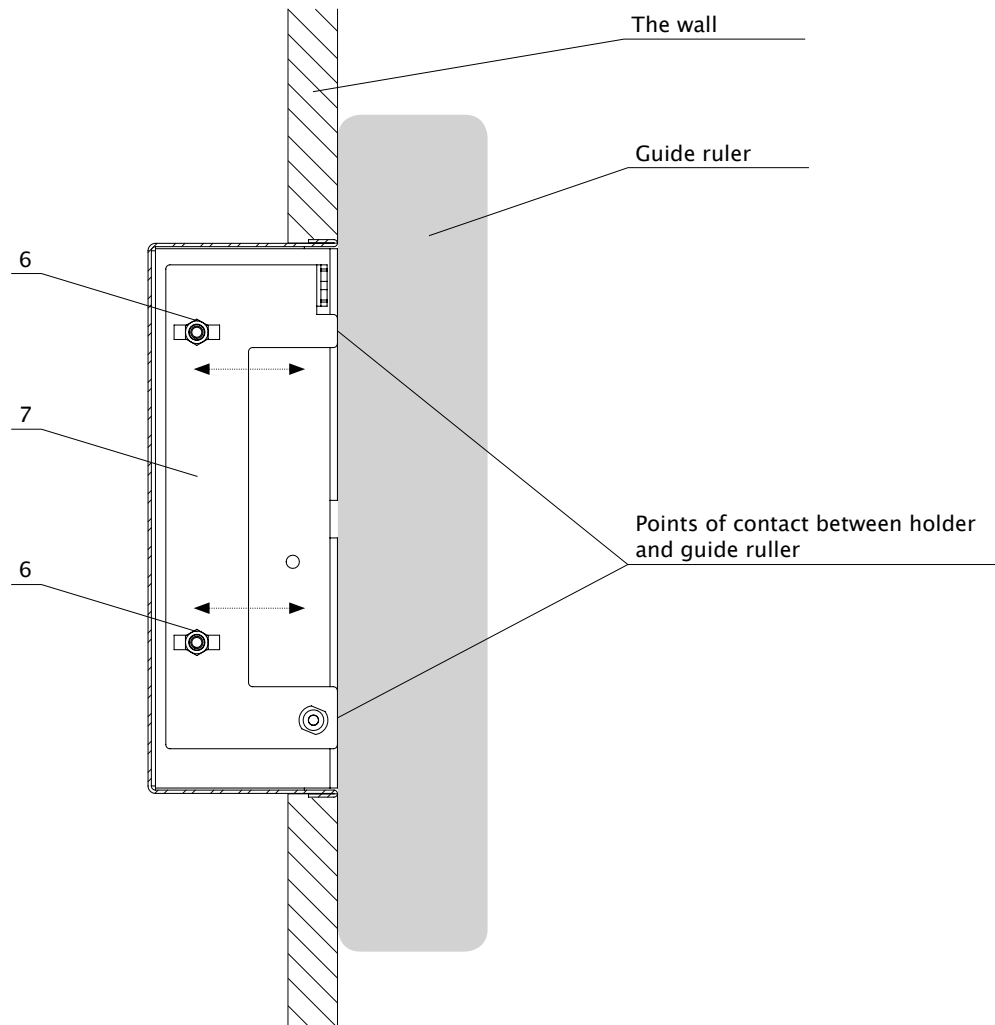
1. Chisel out the mounting hole 1 in the wall.
2. Break suitable knockout 3 for comfortable stretch of cable.
3. Insert the back box 2 into the hole 1 and take the cables through broken off knockout.
4. Fix the back box 2 with mortar or plaster.
5. Neaten the visible front part of the back box with stuke or another appropriate material.
6. Adjust the metal holder 7 as described in the chapter Adjusting the Panel on the Wall.



Adjusting Unit On The Wall

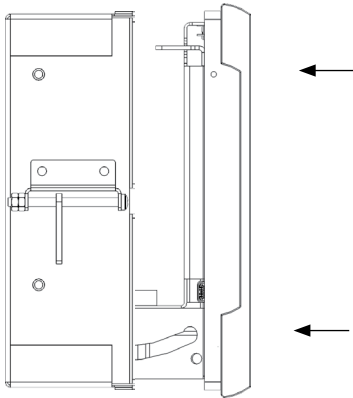
If the touch panel does not adhere to the wall perfectly, you can adjust it in the following way.

1. Take the panel out of the back box
2. Loosen the two nuts 6 on the metal holder 7 on the inside of the back box (the one with thorns and fixing tabs).
3. Adjust the holder in a way to make the touch panel adhere neatly to the wall. Use guide ruler as described below.
4. Tighten the two nuts 6.
5. Repeat steps 2 to 4 on the other side of the back box.



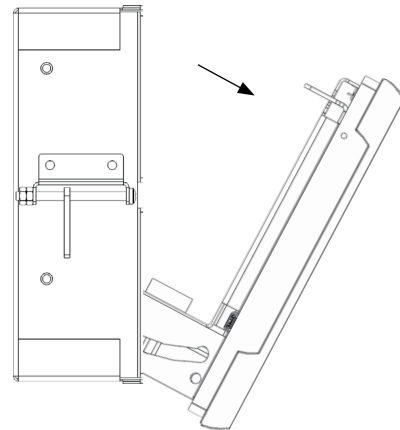
Placing Unit Into The Back Box

Step 1



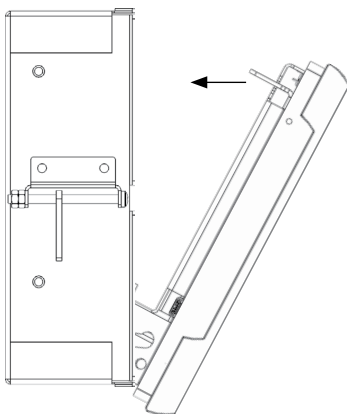
Hold touch panel in the upright position and push it into the back box so that the thorns in the back box slide into the grooves in the metal slat of the touch panel.

Step 2



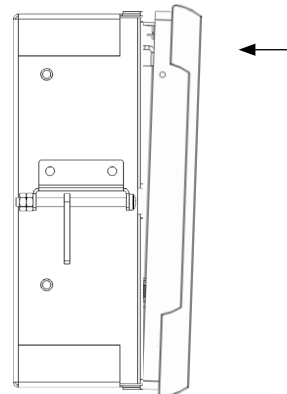
This enables you to tilt the panel, which holds in this position, and mount cables.

Step 3



If you want to place the panel in the back box, hold it upright and push its bottom part strongly as deep into the back box as possible.

Step 4



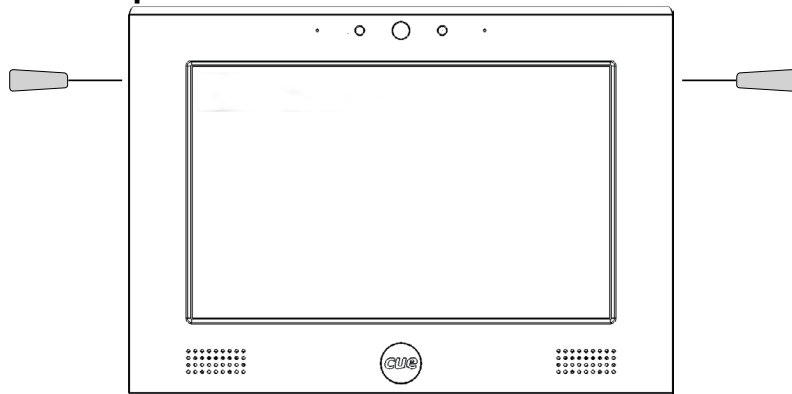
Then push the upper part of the panel until the two metal catches slide into the fixing tabs.

Note:

If the touch panel does not adhere to the wall perfectly, you can adjust it as described in the capture **Adjusting the Panel on the Wall**.

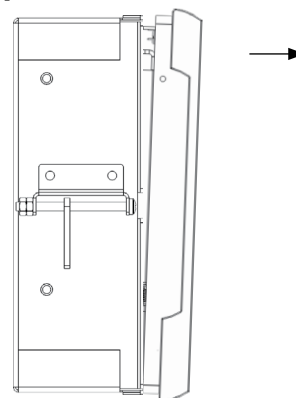
Taking Unit Out

Step 1



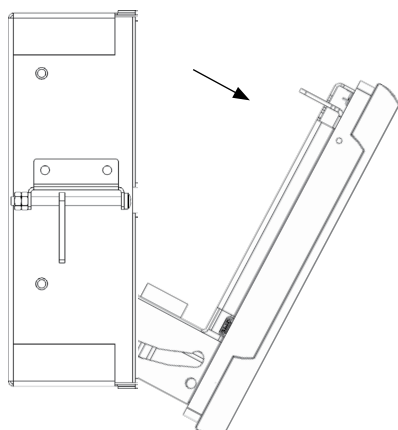
Insert a thin screwdriver into each of the two little holes on the sides of the touch panel and push until the metal catches get loose.

Step 2



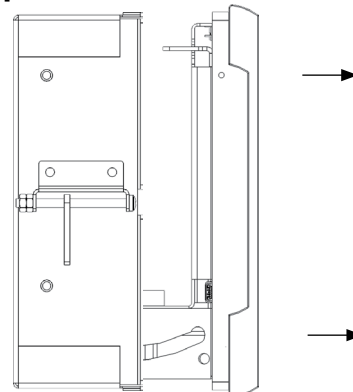
Then you can tilt the upper part of the touch panel.

Step 3



Hold the panel upright and pull its bottom part out. In this position you can tilt the panel to mount cables.

Step 4



If you need to remove the panel out completely, hold it upright, push downwards and pull it out.

Cleaning

You should clean the touch panel screen overlay after each day's use.

Materials required are

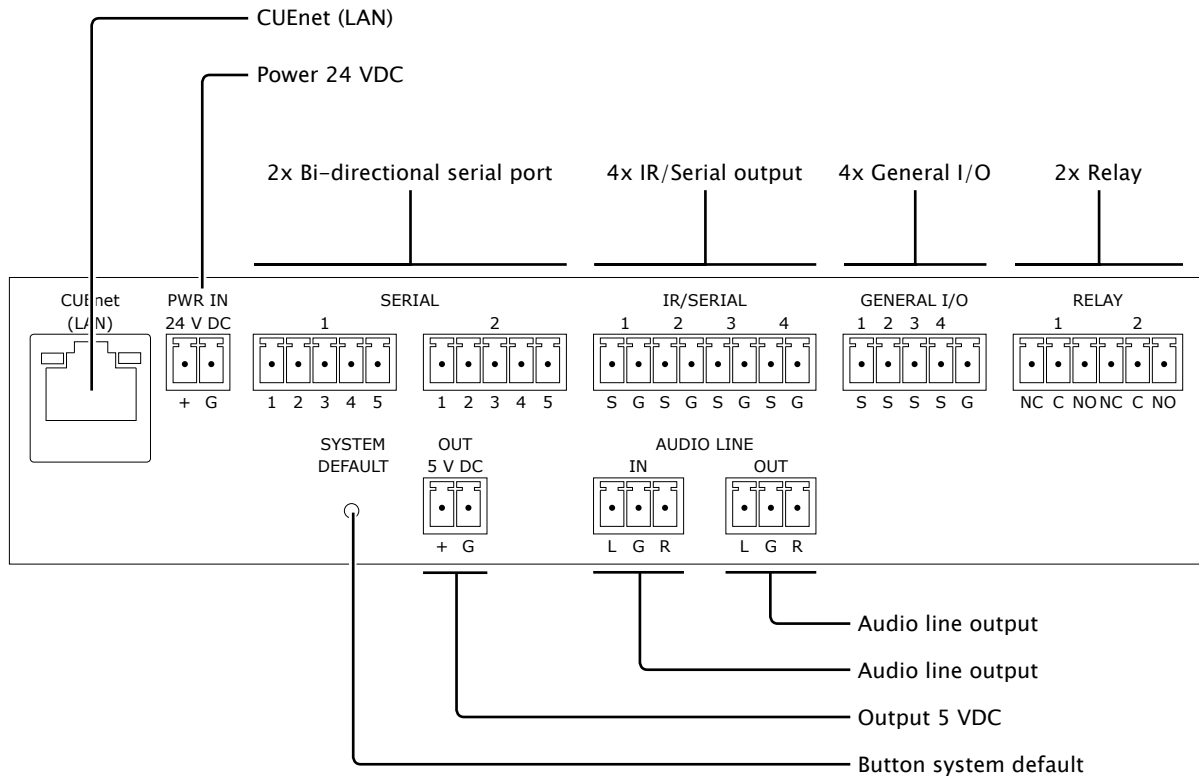
1. Two clean, soft texture cloths (cotton).
2. Spray bottle of cleaning solution without alcohol (window cleaner).
3. Aluminium parts should be cleaned using a special cleaning solution.

Steps are

1. Turn the touch panel off.
2. Spray a small amount of the cleaning solution onto one of the cloths.
3. Clean the touch panel overlay with the damp cloth.
4. Wipe the touch panel overlay with the dry cloth.

Connecting

Rear Panel Overview



CUEnet (LAN)

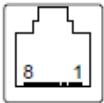
10/100 BaseT LAN Connector

The 10/100 BaseT LAN is a standard network connection 10/100 BaseT LAN using RJ-45 connector.

There is no auto sense, which means it does not recognize straight through cable to cross-over cable. For the direct PC connection it is necessary to use cross-over cable; for the connection to Ethernet switch straight through cable.

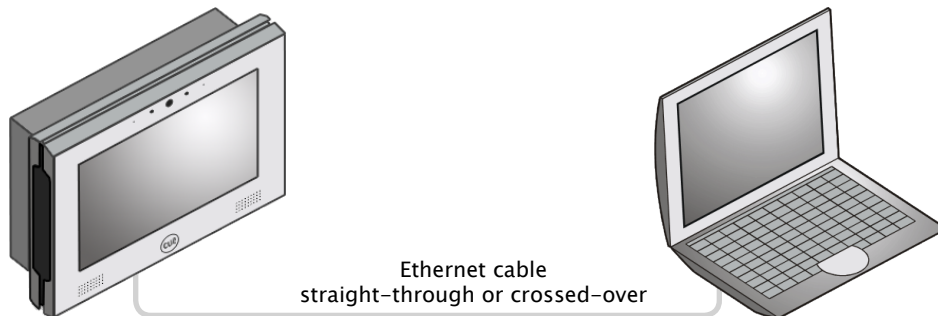
The length of the Ethernet cable connecting touch panel to the network must not exceed 100 meters.

Connector pin out

RJ-45	Pin	Signal	Cat5 Cable Color
	1	TX_D1+ and PoE	White / Orange
	2	TX_D1- and PoE	Orange
	3	RX_D2+ and PoE	White / Green
	4		Blue
	5		White / Blue
	6	RX-D2- and PoE	Green
	7		White / Brown
	8		Brown

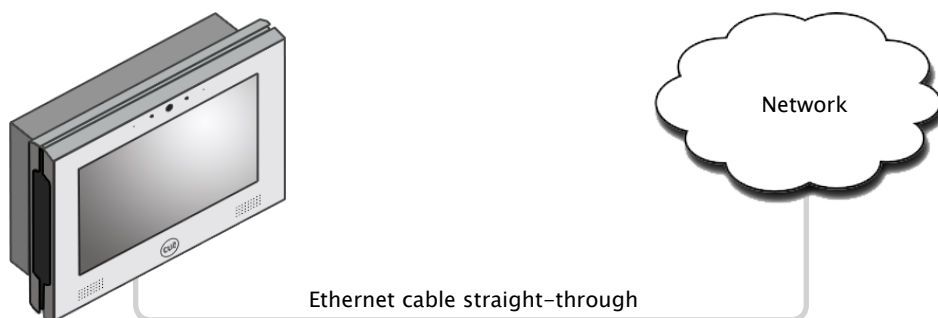
Direct PC Connection

Attach one end of an RJ-45 Ethernet cable to the CUEnet (LAN) port and attach the other end of the RJ-45 Ethernet cable to your computer. Use straight-through cable if your PC supports autosense or crossed-over cable if your PC doesn't support autosense.



LAN Network Connection

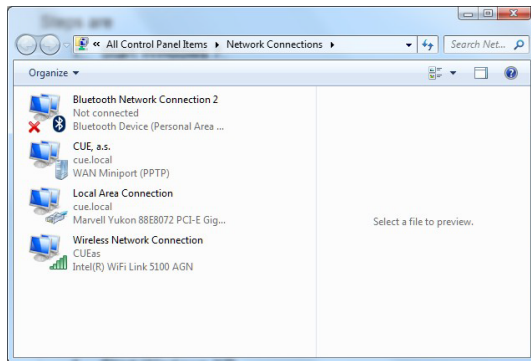
Attach one end of an RJ-45 Ethernet straight-through cable to the CUEnet (LAN) port and attach the other end of the RJ-45 Ethernet cable to your computer.



Windows Local Network Settings

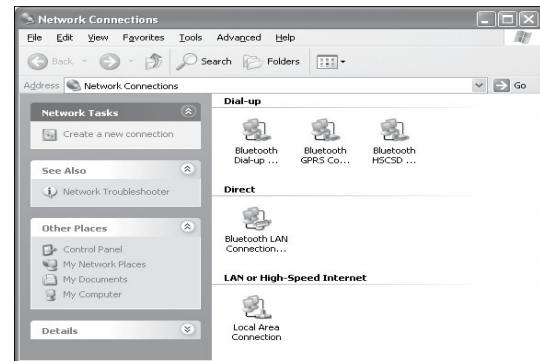
For Windows 7 steps are

1. Start Windows 7.
2. Click Start.
3. Enter `ncpa.cpl` to the Search Box and press Enter. Following window is displayed.



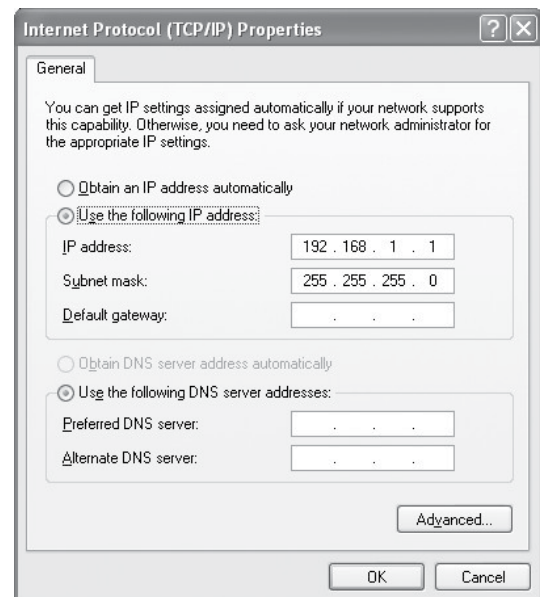
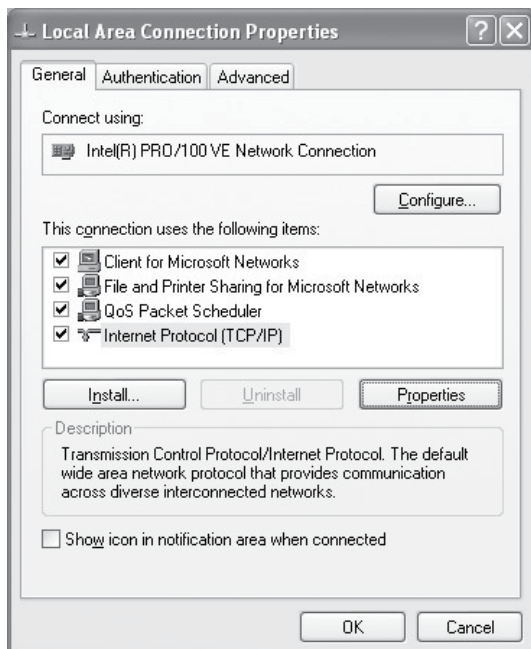
For Windows XP steps are

1. Start Windows XP.
2. Click Start, then click Control Panel choose the option to switch to Classic View.
3. Double-click Network Connections.



Following steps are

1. Right-click on network adapter used for connection with touch panel controller and then right-click and select Properties.
2. Select Internet Protocol (TCP/IP) and click Properties button.
3. Select Use the following IP address option. Set IP address to 192.168.1.1 (or other address different from 192.168.1.127 and from 192.168.1.128) and Subnet mask to 255.255.255.0. Leave other options unchanged and click OK.




PWR IN

The uniCUE requires power from an external power supply. The standard CUEadapter /30W is delivered with the unit. Attach the 2-pin connector of the power supply unit to the PWR IN connector located on the rear panel and attach power cable to a power outlet.


Warning: Use any unit only with the power adapter supplied in the product package. Using another power supply may damage the unit.

Connector pin out

PWR IN		
2-pin 3.5 mm	Pin	Description
	+	Power +24 VDC
	G	Ground

OUT 5 V

Connector pin out

PWR OUT		
2-pin 3.5 mm	Pin	Description
	+	Output +5 VDC, max. 1 A
	G	Ground

SERIAL

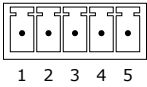
Overview

These bi-directional serial channels are used for RS-232, RS-422 and RS-485 communication. Maximum speed is 115 200 Bd (bps). Default mode for all channels is RS-232, other modes must be set in programming application. For more details see programming manuals.

RS-232 Mode

Output signal levels for RS-232 are in the -10 V to +10 V range. This is default mode for all channels.

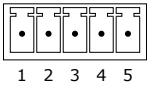
Connector pin out

SERIAL RS-232				
5-pin 3.5 mm	Pin	Signal	Description	Direction
	1	TxD	RS-232 Transmitted Data	From uniCUE
	2	RTS	RS-232 Request to Send	From uniCUE
	3	GND	Ground	
	4	RxD	RS-232 Received Data	To uniCUE
	5	CTS	RS-232 Clear to Send	To uniCUE

RS-422 Mode

This mode must be set in the programming application.

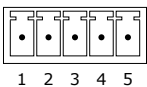
Connector pin out

SERIAL RS-422				
5-pin 3.5 mm	Pin	Signal	Description	Direction
	1	Tx A+	RS-422 Transmit Data (Idles High)	From uniCUE
	2	Tx B-	RS-422 Transmit Data (Idles Low)	From uniCUE
	3	GND	Ground	
	4	Rx A+	RS-422 Receive Data (Idles High)	To uniCUE
	5	Rx B-	RS-422 Receive Data (Idles Low)	To uniCUE

RS-485 Mode

This mode must be set in the programming application.

Connector pin out

SERIAL RS-485				
5-pin 3.5 mm	Pin	Signal	Description	
	1	A+	RS-422 Transmit Data (Idles High)	
	2	B-	RS-422 Transmit Data (Idles Low)	
	3	GND	Ground	
	4	N.C.	RS-422 Receive Data (Idles High)	
	5	N.C.	RS-422 Receive Data (Idles Low)	


IR/SERIAL

This type of port provides

- Output for infra-red emitters (IR Adapter /i), maximum IR output rate is 1.2 MHz.
- RS-232 serial output (one way), maximum serial data rate is 115 200 Bd (bps), output signal levels for RS-232 are in the -12 V to +12 V range.

The IR outputs and RS-232 outputs can be combined on independent outputs (for example three outputs can be used as IR, five outputs can be used as RS-232).

Connector pin out

IR/SERIAL			
2-pin 3.5 mm	Pin	Signal	Description
	S	Signal	IR/Serial Signal (Output)
	G	GND	Ground

Notes

- All pins labelled G are connected together.
- Up to three original infra-red emitters IR Adapter /i can be connected to each output in parallel.
- Up to ten IR Sprayers can be connected to each output in parallel
- It is not recommended to connect more infra-red emitters of various manufacturers in parallel because the output can be either overloaded or damaged.

GENERAL I/O

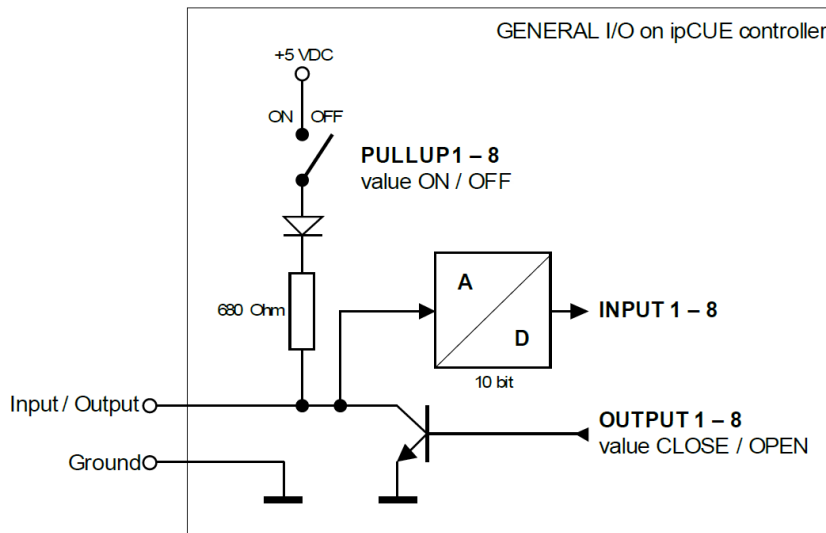
General I/O provides analog input as well as digital output. Each General I/O port can be used either as input or as output.

Pull-up resistor 680 ohms is connected to +5 VDC and can be switched on and off for each I/O independently. I/O voltage with pull-up on is approx. +4.3 VDC, because protection diode is connected in series (0.7 V dropdown).

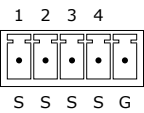
Analog input is rated 0 – 5 VDC. Analog to digital (A/D) converter has 10-bits precision (i.e. 1024 levels).

Digital output can switch max. 24 VDC / 80 mA. Output voltage for output switch on is approx. 0.6 V.

I/O schematic diagram



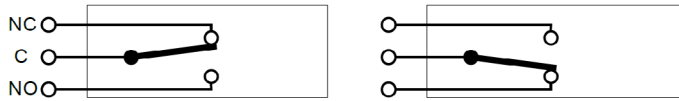
Connector pin out

GENERAL I/O			
5-pin 3.5 mm	Pin	Signal	Description
	S	Signal	Input / Output Signal 1 – 4
	G	GND	Common ground for all I/Os


RELAY

This port provides one isolated low voltage relay. Each relay contact closure is rated 24 V / 0.5 A.

Normally Close (NC) and Normally Open (NO) contacts as well as Common (C) contact of each relay can be used. The Normally Close (NC) position is the state of the relay when it is not turned on (energized).



Connector pin out


RELAY		
3-pin 3.5 mm	Pin	Description
	NC	Relay Contact Normal Close
	C	Relay Contact Common
	NO	Relay Contact Normal Open

AUDIO LINE

IN

This connector provides unbalanced line level audio.


Connector pin out

AUDIO LINE IN			
3-pin 3.5 mm	Pin	Signal	Description
	L	Left	Left channel
	G	GND	Ground
	R	Right	Right channel

OUT

This connector provides un-amplified unbalanced line level audio. Connect audio devices, such as an audio amplifier or powered speakers to this connector.

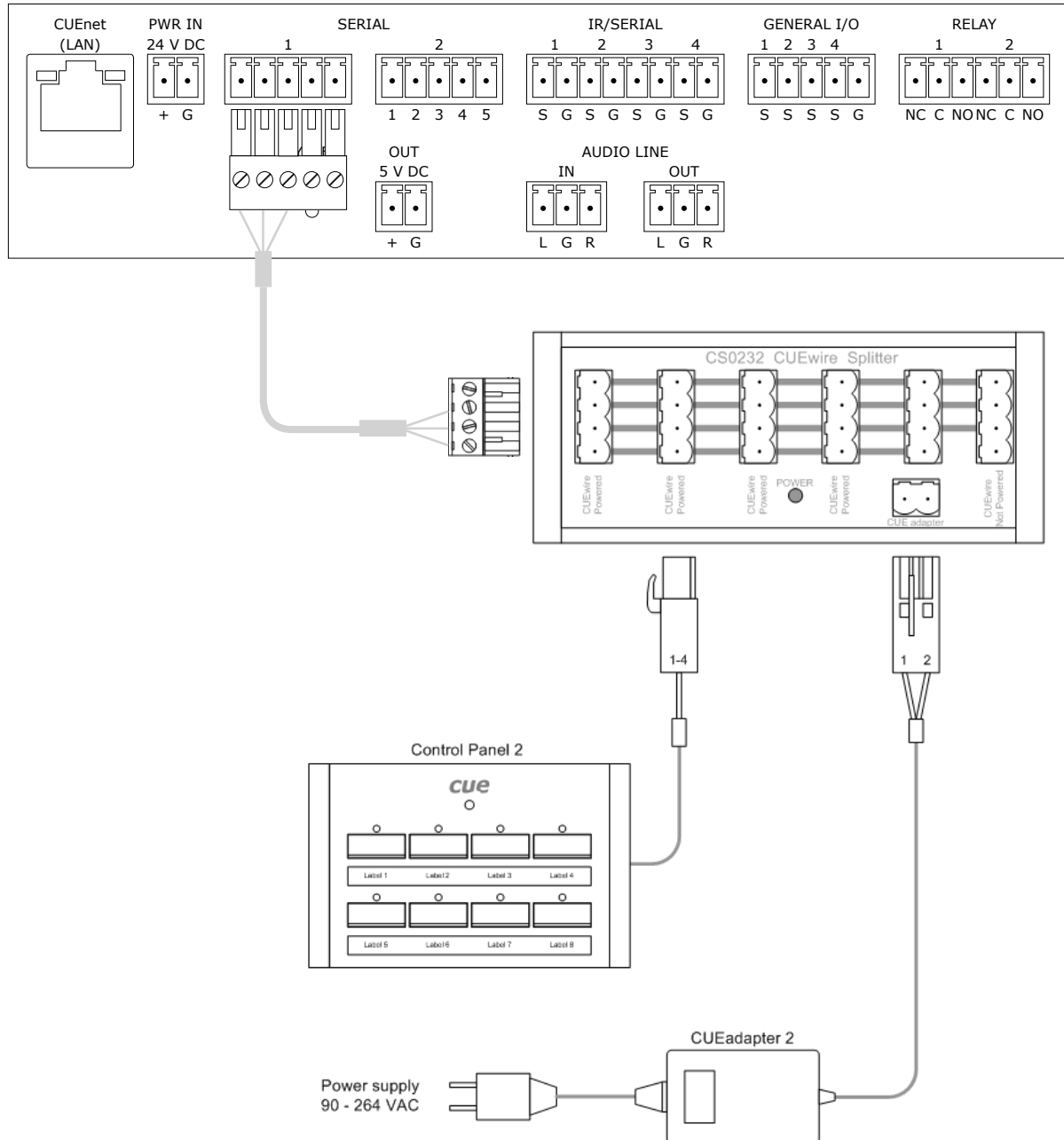
Connector pin out

AUDIO LINE OUT			
3-pin 3.5 mm	Pin	Signal	Description
	L	Left	Left channel
	G	GND	Ground
	R	Right	Right channel

CUEwire Device Connection

Both uniCUEs are compatible with CUEwire devices as keyboards, keypads, sensors etc. Serial ports SERIAL 1 or SERIAL 2 in mode RS-485 can be used for CUEwire connection. Unlike controllers the uniCUE isn't equipped with 24 V output, that means all CUEwire devices must be powered externally.

See following figure for CUEwire device connection.



Download User Application

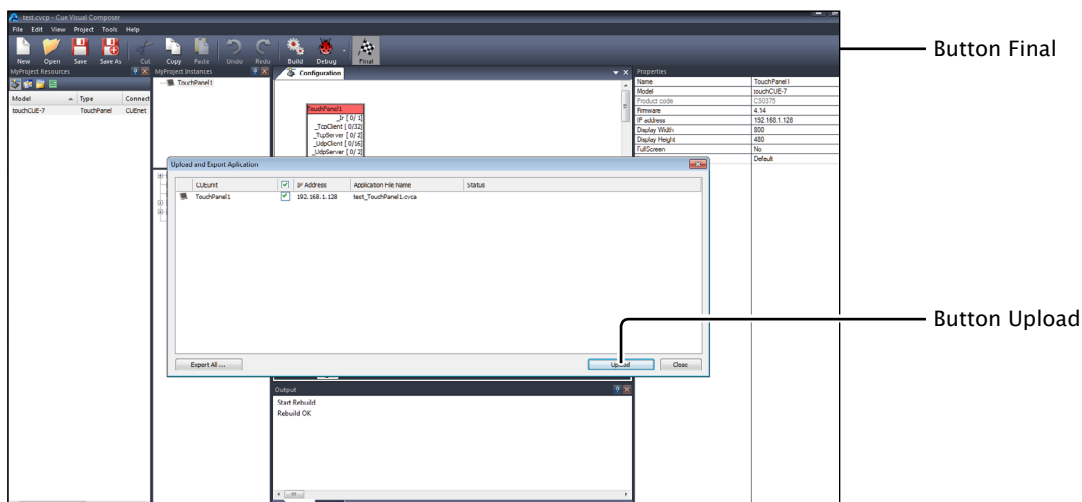
Overview

User control application is dedicated to control and it is programmed by Cue Visual Composer programming tools.

Using Cue Visual Composer

Steps are

1. Connect touch panel controller to your computer as described in chapter Connecting / CUEnet (LAN).
2. Run Cue Visual Composer on your PC.
3. Open appropriate project in Cue Visual Composer. It's necessary to have appropriated touch panel controller properly inserted and configured.
4. Use tool bar button Final to open Upload and Export Application dialog box.

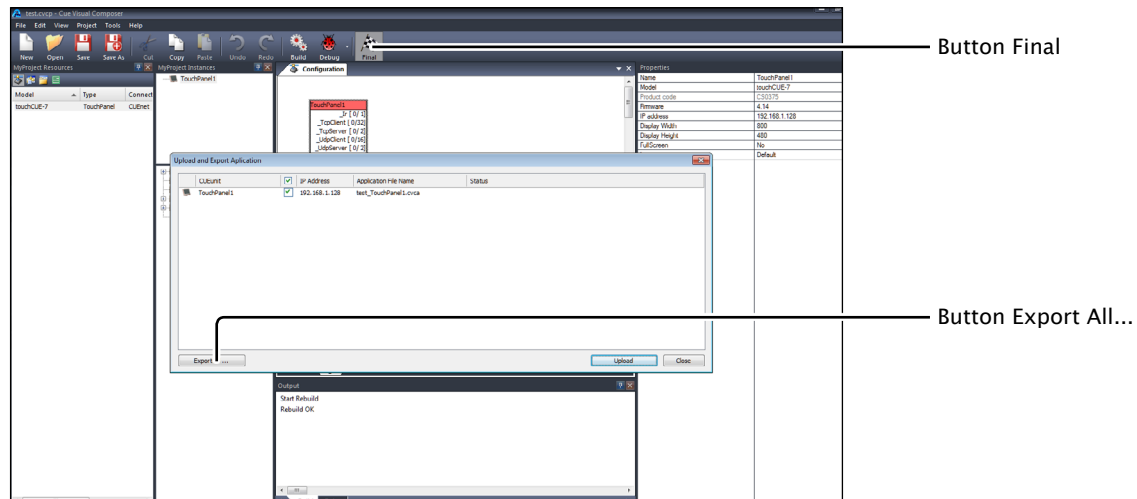


5. Be sure your touch panel controller is checked.
6. Use button Upload to start application upload.
7. If touch panel firmware isn't actual it will be uploaded automatically first and then application upload will be finished.

Using Admin Web

Steps are

1. Connect touch panel controller to your computer as described in chapter Connecting / CUEnet (LAN)..
2. Run Cue Visual Composer on your PC.
3. Open appropriate project in Cue Visual Composer. It's necessary to have appropriated touch panel controller properly inserted and configured.
4. Use tool bar button Final to open Upload and Export Application dialog box.



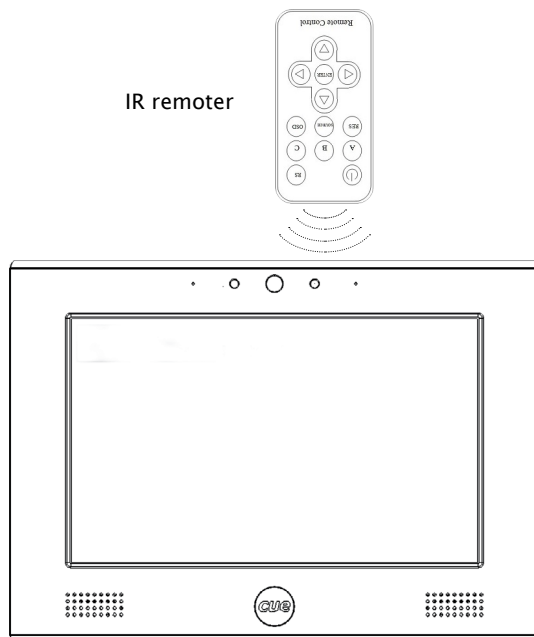
5. Be sure your touch panel controller is checked.
6. Use button Export All... to export application and store it in file *.cvca.
7. Run the Internet browser on your PC and type in the same touch panel IP address as you see in Cue Visual Composer project, window Properties / IP address.
8. Go to page System and check current firmware version. In case there is no actual firmware version in touch panel, upload firmware version that corresponds to firmware version in the Cue Visual Composer project..
9. Go to page Applications and upload application file *.cvca.
10. Start uploaded application using button Start.

IR Capture

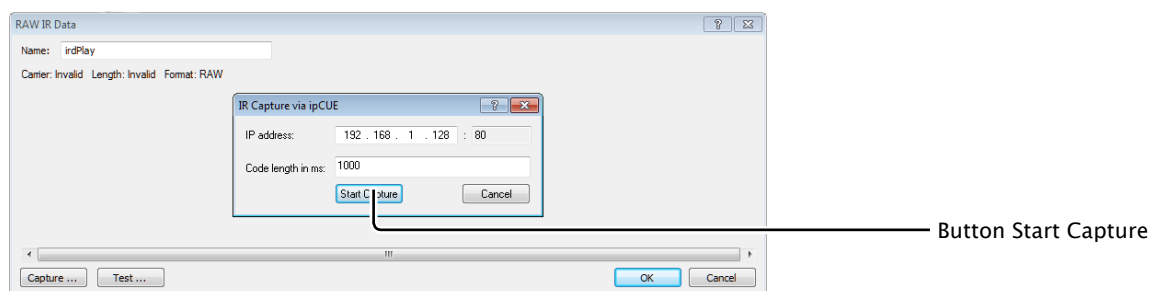
Both uniCUE models have possibility to capture IR codes. This is the same functionality as some ipCUE controllers have. Captured IR codes can be used in all types of controllers too.

Steps are as follows

1. Connect the uniCUE to your PC as described in the chapter PC Connection.
2. Arrange IR remoter and touch panel as described below.



3. Start Cue Visual Composer and capture IR codes by standard way.
4. Push Start Capture button in Cue Visual Composer and then press appropriate button on IR remoter.



5. Instructions and messages are displayed on the touch panel and in the Cue Visual Composer.
6. If message "Signal is too weak" is displayed, change position of IR remoter and try again.

Factory Default and System Default

Every device shipped from the factory is set according to table bellow, Factory Default column.

When pressed System Default button, the system default function is performed according to table bellow, System Default column. The main purpose of this functionality is to regain connection to touch panel with lost password or unknown IP settings.

			Factory Default	System Default
Configuration	Identification	Name	Empty	Not changed
	IP settings	Host name	Empty	Not changed
		IP address	192.168.1.128	192.168.1.128
		Subnet mask	255.255.255.0	255.255.255.0
		Default gateway	192.168.1.1	192.168.1.1
	DNS	Primary DNS server	Empty	Not changed
		Secondary DNS server	Empty	Not changed
Date and time	Date and Time	Day, month, year	Real	Not changed
		Hour, minute, second	Real	Not changed
		Time zone	(GMT+1:00 CET/CEST Belgrade, ..., Prague)	Not changed
	Internet clock	Use Internet clock	Not	Not changed
		Primary NTP server	Empty	Not changed
		Secondary NTP server	Empty	Not changed
Applications			Empty	Not changed
File storage			Empty	Not changed
System	Firmware		Current version	Not changed
Password			Empty	Empty

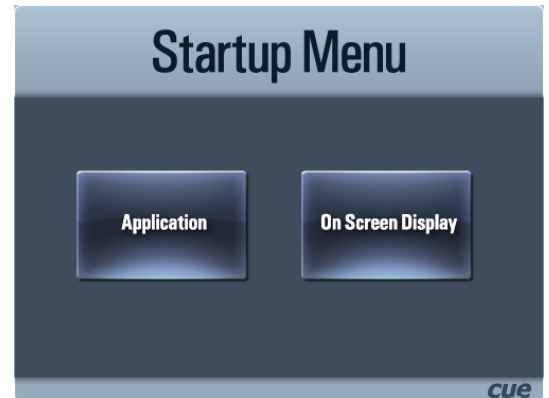
On Screen Display

Access On Screen Display

The multifunctional button located on front panel shows On Screen Display. Startup Menu is displayed automatically if no application is running.

Startup Menu

The Startup Menu is activated if no application is running.
Application button starts downloaded application.
On Screen Display button launches menu described below.



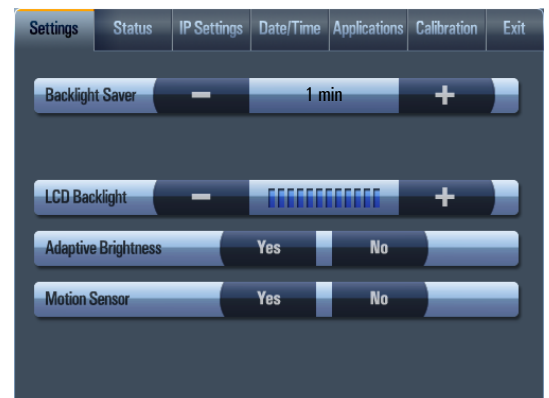
Settings

The Backlight Saver will switch off automatically display backlight. Time in minutes can be set by buttons – and +. Time set to 0 means that Backlight Saver is disabled.

LCD Backlight sets display backlight level.

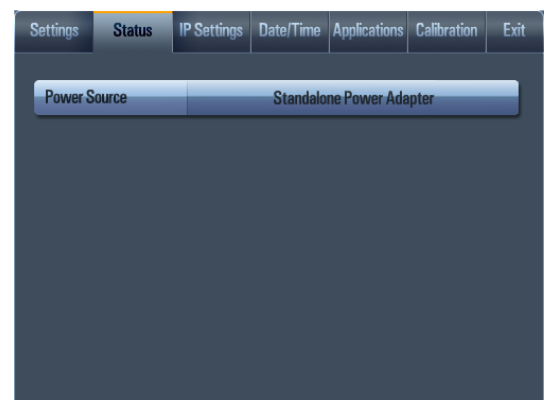
If Adaptive Brightness is switched to Yes, the light sensor automatically adjusts display backlight according ambient light level.

If Motion Sensor is switched to Yes the Motion Sensor resumes touch panel from Backlight Saver mode automatically.



Status

This page shows current status of the touch panel.



IP Settings

This page is used for setting the communication parameters for your touch panel. The touch panel uses standard internet protocol (IP) communication parameters. Certain parameters can be reset by the user. On start up, this page will display current IP address. Carefully note this addressing information (and any changes you elect to make to the IP address, subnet mask, or default gateway). This information must be entered into the Cue Visual Composer program written for your specific application. For control systems with more than one unit, a unique IP address must be given to each CUEunit.

For setting please select appropriate field using Edit button and then use numeric keypad.

Be sure to click the Apply button for any changes to become effective.

Settings	Status	IP Settings	Date/Time	Applications	Calibration	Exit
IP Address		192.168.1.128				Edit
Subnet Mask		255.255.255.0				Edit
Default Gateway		192.168.1.1				Edit
Apply						

Date/Time

This page is used for setting Date/Time parameters.

The current date and time can be set. For setting please select appropriate field using Edit button and then use numeric keypad.

The time zone box can be selected to enter from the list activated by button Edit.

Rest of the page is used for synchronization of the CUEunit's date and time with an internet clock. Select Yes for Use Internet clock. Next, enter the IP addresses (or complete address name) of the primary and secondary NTP servers.

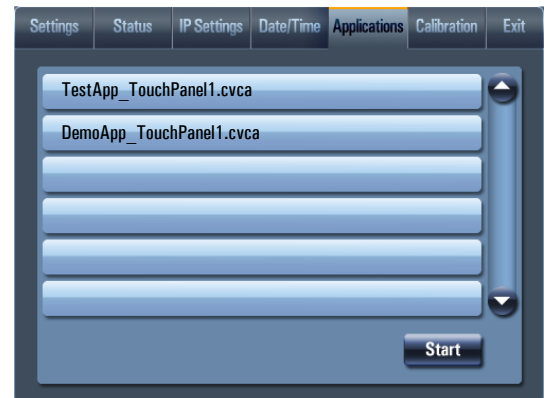
Settings	Status	IP Settings	Date/Time	Applications	Calibration	Exit
Day/Month/Year			19/04/2011			Edit
Hour/Minute/Second			17:01:25			Edit
Time Zone			GMT + 01:00 CET/CEST			Edit
Use Internet Clock			Yes No			
Primary NTP Server						Edit
Secondary NTP Server						Edit

Applications

This screen is used for selection, start and stop of uploaded applications. All uploaded applications are listed on this page.

Select application and press button Start. A “running flag” denotes the active application. Active application starts automatically after switch on the unit. The running application can be stopped via the Stop button.

Files are uploaded from a personal computer to the touch panel using Cue Visual Composer software or using Admin Web.



Calibration

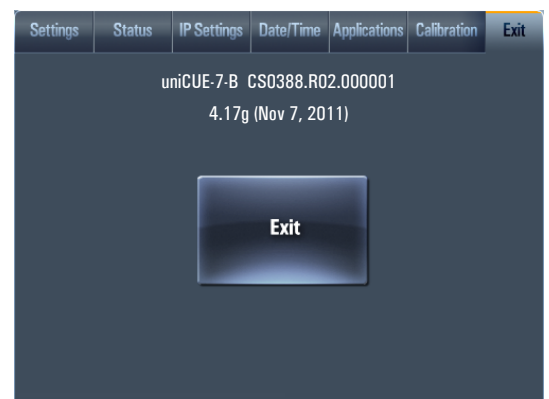
Use this page for calibration. We recommend use stylus.



Exit

Closes the On Screen Display.

On this page the product name, product code and current firmware version are displayed.



Admin Web

Access Admin Web

Run the Internet browser on your PC and type in the touch panel IP address. Factory default IP address is 192.168.1.128. The default password is empty.

Login

This screen isn't displayed if password is empty (factory default status).

If password isn't empty, you have to login at first for operating with your CUEunit via these web pages.

Enter your password into the Password box and click the Login button to enter the CUEunit web pages.

Remember that the password is case sensitive. For changing your password use the Password menu after you are logged in.

Configuration

Identification

Each CUEunit can be identified by a unique identification name. Unique names are most useful in applications requiring more than one CUEunit. This enables programmers and installers to reference CUEunits with logical, user friendly names, like "boardroom," "lobby," etc.

To set the CUEunit identity, enter the unique name you wish to use in the Name box.

Be sure to click the Apply button for any changes to become effective!

IP Settings

This page is used for establishing the communication parameters for your CUEunit.

The CUEunit uses standard internet protocol (IP) communication parameters. Certain parameters can be reset by the user. On start up, this page will display the CUEunit's given Physical address (MAC), Current IP address. Carefully note this addressing information (and any changes you elect to make to the IP address, subnet mask, or default gateway). This information must be entered into the Cue Visual Composer program written for your specific application. For control systems with more than one CUEunits, a unique IP address must be given to each CUEunit.

Some control systems are "stand alone" and not part of a larger network. For such "stand alone" systems, the Host name is optional. However, for control systems that are connected to a larger network, please obtain the Host name from the network administrator, and enter it into the corresponding box. DHCP is not supported in this release.

Be sure to click the Apply button for any changes to become effective!

DNS

This page is used for setting parameters of your CUEunit's DNS server.

On start up, this page will display the CUEunit's given Current primary DNS server, Current secondary DNS server. You can reset the primary DNS server and secondary DNS server manually by entering your changes into the appropriate boxes.

DHCP is not supported in this release.

Be sure to click the Apply button for any changes to become effective!

The screenshot shows the 'Configuration' page for a CUE unit. The left sidebar contains a menu with options: Configuration, Date and time, Applications, File storage, E-mail, Settings, System, Password, Backup, Reset, and License. The main content area is titled 'Configuration' and has tabs for Identification, IP settings, DNS, and SMTP. The 'DNS' tab is selected. It displays the 'Current primary DNS server' as 192.168.1.1 and the 'Current secondary DNS server' as an empty field. Below these, there are input fields for 'Primary DNS server' (containing 192.168.1.1) and 'Secondary DNS server' (empty). At the bottom right, there are 'Apply' and 'Help' buttons.

SMTP

This page is used for setting parameters of SMTP server. Set a name or an address and the port of your SMTP server.

The SMTP server and port are used by the XPL2 commands EmailSend and PresetEmailSend.

Be sure to click the Apply button for any changes to become effective!

The screenshot shows the 'Configuration' page for a CUE unit, similar to the DNS page. The 'SMTP' tab is selected. It displays the 'Outgoing mail server (SMTP)' section with input fields for 'Name' and 'Port'. Below this is the 'Authentication' section with a 'Type' dropdown menu (set to 'None'), and input fields for 'Username' and 'Password'. At the bottom right, there are 'Apply' and 'Help' buttons.

Date and Time

Current date and time

This page is used for setting the time clock on your CUEunit. The current date, time, and time zone are shown on the Current time line.

The applicable boxes can be selected to enter changes to the

- date: day/month/year,
- time: hour/minute/second.

Be sure to click the Apply button for any changes to become effective!

Time zone

This page is used for setting the time zone on your CUEunit. The current date, time, and time zone, are shown on the Current time line. The time zone box can be selected to enter changes to the Time zone.

Be sure to click the Apply button for any changes to become effective!

Internet clock

This page is used for synchronization of the CUEunit's date and time with an internet clock. Begin by selecting the check box for Use Internet clock. Next, enter the IP addresses (or complete address name) of the primary and secondary NTP servers. Use the Primary NTP server and Secondary NTP server boxes for this purpose.

Be sure to click the Apply button for any changes to the internet clock to become effective!

Applications

This page is used for uploading compiled Cue Visual Composer programs to your CUEunit.

All uploaded applications are listed on this page, along with their file properties: file name/file size/date. The CUEunit has a generous memory; unused free space is shown at the bottom of this page. CUEunit also permits other service functions like deleting files, downloading programs back to a personal computer, and starting/stopping specific applications.

A “running flag” denotes the active application. The running application can be stopped via the Start/Stop button. Likewise, a stopped application can be restarted with the Start/Stop button.

Files are uploaded from a personal computer to the CUEunit by selecting the desired application program, and clicking the Upload button. Files are downloaded from the CUEunit to a personal computer by clicking the File name. Files are easily deleted with the Delete button. The button Total stop stops a running application. This application will not be automatically started after reset.

Configuration
Date and time
Applications
File storage
E-mail
Settings
System
Password
Backup
Reset
License

uniCUE-7-B CS0388.R02.009999

Applications

Name	Size	Date		
BGLSamplerWXGA_TouchPanel...	7746 KB	23.03.11 15:42	Stop	Delete
ISE2011_TouchPanel1.cvca	9105 KB	30.01.11 19:04	Start	Delete
ISE2011_TouchPanel2.cvca	9144 KB	01.02.11 09:37	Start	Delete
ISE2011_TouchPanel3.cvca	9144 KB	30.01.11 20:08	Start	Delete
touchCUE12-video_2_Touchpa...	2670 KB	28.01.11 20:17	Start	Delete

Free space: 3313 MB Total Stop

www.cuesystem.com
Contact Support

vybrat soubor Soubor nevybrán Upload

Note: The application cannot be uploaded from more pages at the same time.

Help

File Storage

The CUEunit's generous memory can be used as an auxiliary file storage device. This is helpful for storing presets, in archiving electronic manuals, pdf files, and other support documentation. File storage is managed via the file storage page.

A list of existing files, folders, and their properties is shown. To delete a file or a folder, click the Delete button on the corresponding line. To delete all files and folders from the current folder, click the Delete All button.

To create a new folder, enter a name for the new folder, and click the Create button. To upload a file, select the desired file, and click the Upload button.

Note: Files are automatically compressed for the CUEunit's internal file system. Accordingly, the size of your uncompressed file before storing may not match the decrease of free space shown on the CUEunit.

Configuration
Date and time
Applications
File storage
E-mail
Settings
System
Password
Backup
Reset
License

uniCUE-7-B CS0388.R02.009999

File storage

Name	Size	Date	
/			
CUENIUM2_800x450_h263p_3000.avi	6914 KB	27.01.11 16:13	Delete
DailyWeatherConfig.cfg	305 B	03.02.11 15:38	Delete
MyRoomUIConfig.var	358 B	30.01.11 20:15	Delete

Free space: 3524 MB Delete all

www.cuesystem.com
Contact Support

Folder: Create

File: vybrat soubor Soubor nevybrán Upload

Note: A file cannot be uploaded from more pages at the same time.

Help

E-mail

This page is used for setting parameters of e-mail parameters and recipients addresses.

The SMTP server must be set. See the Configuration/SMTP setting.

The sender Name and E-mail are addresses of your CUEunit. The sender Name and E-mail are used by the XPL2 commands EmailSend and PresetEmailSend.

The recipient Names and E-mails are addresses of recipients, where e-mails will be sent using the XPL2 command PresetEmailSend.

Settings

Settings

On this page some display features can be set.

The Backlight Saver will switch off automatically display backlight. Time in minutes can be set. Time set to 0 means that Backlight Saver is disabled.

LCD Backlight sets display backlight level.

If Adaptive Brightness is switched to Yes, the light sensor automatically adjusts display backlight according ambient light level.

If Motion Sensor is switched to Yes the Motion Sensor resumes touch panel from Backlight Saver mode automatically.

On Screen Display

This page serves for setting of On Screen Display functionality.

Type of activation is defined here as well as mode of the On Screen Display. In Advanced mode all functions are available, Basic mode is more safety (for example network settings can't be changed).

In addition some settings done by On Screen Display can be enabled or disabled.

Calibration

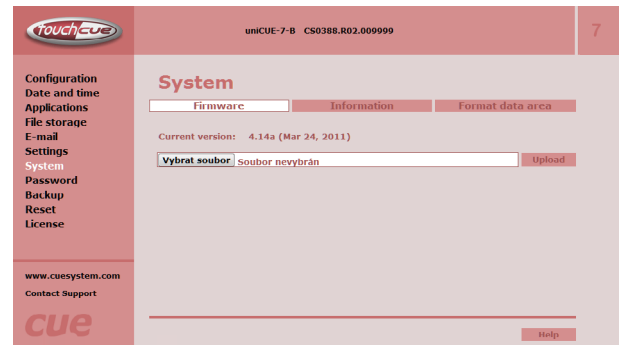
Use this page to start calibration and follow instructions on the touch panel.

For proper calibration use a stylus.

System

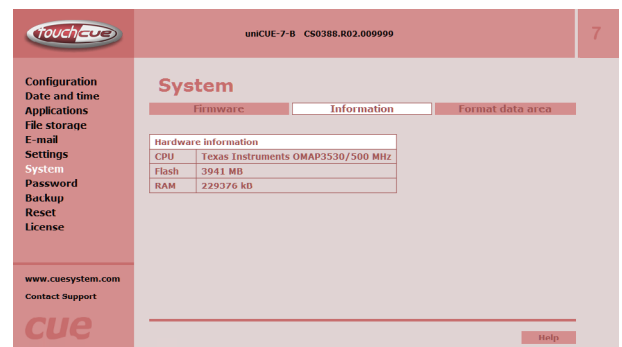
Firmware

This page is used for updating the CUEunit firmware. The Current version of firmware is shown. To upload new firmware, select the desired version, and click the Upload button.



Information

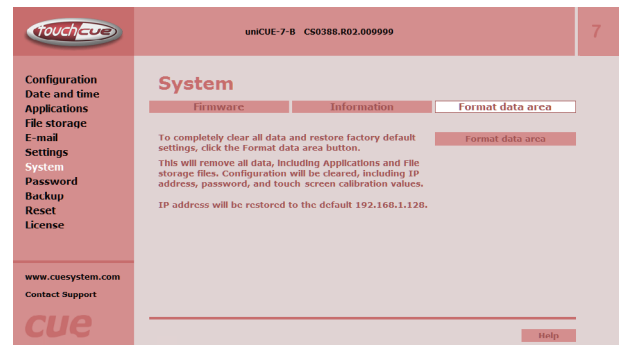
The page shows basic information about your CUEunit's hardware. The CPU type, CPU frequency, and the flash and RAM memory sizes are shown.



Format data area

To completely clear all data and restore factory default settings, click the Format data area button.

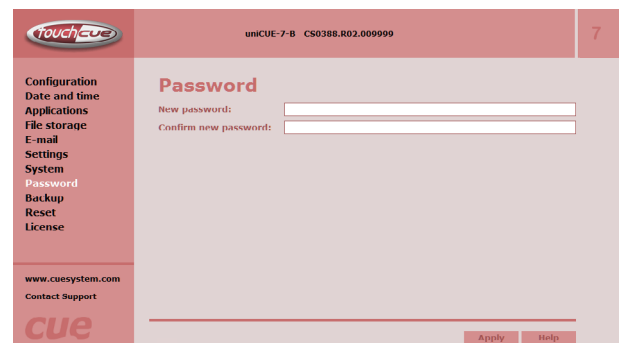
This will remove all data, including Applications and File storage files. Configuration will be cleared, including IP address, password, and touch-screen calibration values. IP address will be restored to the default 192.168.1.128.



Password

A case sensitive password is necessary to login to the admin web pages. Set a new password via the New password box. You must reenter the password in the Confirm new password box. An error message will appear if the confirmation does not match, in which case you should reenter your password again in both boxes.

Finally, the new password is implemented by clicking the Apply button.



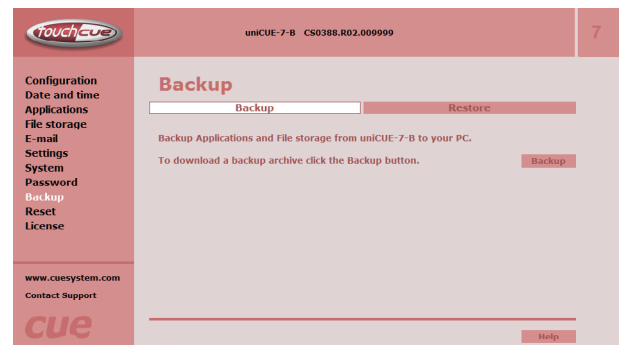
Backup

Backup

The page is used for the backup applications, files and folders. The Backup copies all Applications, Application data, File storage and Web storage to the one archive. This archive is saved to the PC. To start the backup process, click the Backup button.

Note: To see the backed-up/restored applications, click the Applications menu. To see backed-up/restored files and folders, click the File Storage menu. The page is used for the backup of all applications, files and folders.

Note: To see the backed-up/restored applications, click the Applications menu. To see backed-up/restored files and folders, click the File Storage menu.



Restore

READ ALL IMPORTANT NOTES THAT FOLLOW BEFORE USING THIS OPERATION!

The page is used for the restoring of all applications, files and folders. Restore copies of all applications, files, and folders from a backup archive on the PC to their corresponding locations on the CUEunit.

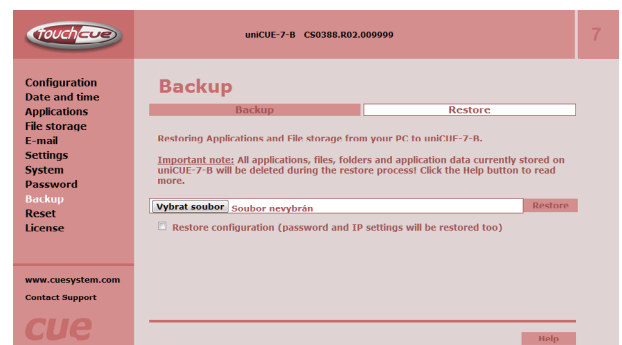
To start the restore process, select the desired backup archive, then click the Restore button. The restore process can take up to 10 minutes, depending on the size of the files being restored.

If you want CUEunit's settings will be restored too, check the "Restore configuration" box. The CUEunit's settings are accessible via the Configuration, Date and time and Password menus.

Important note: actual password and IP settings will be restored too. The restore process takes from 1 to 10 minutes. It depends on the sizes of the restored files.

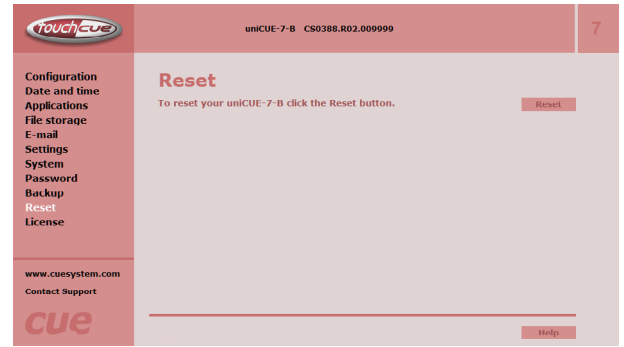
Important note: When restoring files, the running application will be stopped and all applications, files, and folders currently stored in the CUEunit will be deleted! If you want to retain them, use the Backup command before the Restore command.

Note: To see the backed-up/restored applications, click the Applications menu. To see backed-up/restored files and folders, click the File Storage menu.



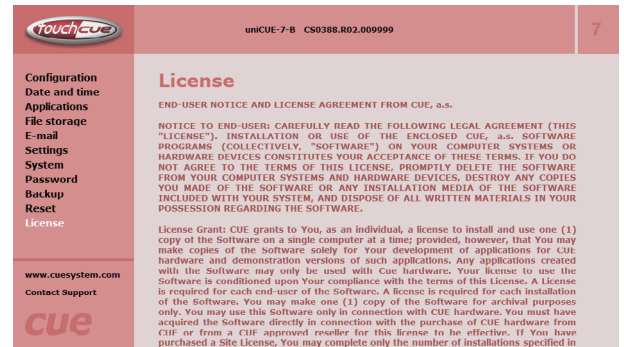
Reset

To restart your CUEunit, click the Reset button.



License

This page describes software license.



Software and Firmware License

END-USER NOTICE AND LICENSE AGREEMENT FROM CUE, a.s.

NOTICE TO END-USER: CAREFULLY READ THE FOLLOWING LEGAL AGREEMENT (THIS "LICENSE").

INSTALLATION OR USE OF THE ENCLOSED CUE, a.s. SOFTWARE PROGRAMS (COLLECTIVELY, "SOFTWARE") ON YOUR COMPUTER SYSTEMS OR HARDWARE DEVICES CONSTITUTES YOUR ACCEPTANCE OF THESE TERMS. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE, PROMPTLY DELETE THE SOFTWARE FROM YOUR COMPUTER SYSTEMS AND HARDWARE DEVICES, DESTROY ANY COPIES YOU MADE OF THE SOFTWARE OR ANY INSTALLATION MEDIA OF THE SOFTWARE INCLUDED WITH YOUR SYSTEM, AND DISPOSE OF ALL WRITTEN MATERIALS IN YOUR POSSESSION REGARDING THE SOFTWARE.

License Grant: CUE grants to You, as an individual, a license to install and use one (1) copy of the Software on a single computer at a time; provided, however, that You may make copies of the Software solely for Your development of applications for CUE hardware and demonstration versions of such applications. Any applications created with the Software may only be used with Cue hardware. Your license to use the Software is conditioned upon Your compliance with the terms of this License. A License is required for each end-user of the Software. A license is required for each installation of the Software. You may make one (1) copy of the Software for archival purposes only. You may use this Software only in connection with CUE hardware. You must have acquired the Software directly in connection with the purchase of CUE hardware from CUE or from a CUE approved reseller for this license to be effective. If You have purchased a Site License, You may complete only the number of installations specified in the License Agreement accompanying the Software.

Copyright: The Software and software built into CUE hardware ("Firmware") are protected by copyright law and international treaty provisions. You acknowledge that no title to the intellectual property in the Software and Firmware is transferred to You. You further acknowledge that title and full ownership rights to the Software and Firmware will remain the exclusive property of CUE, and You will not acquire any rights to the Software and Firmware except as expressly set forth in this License. You agree that any copies of the Software will contain the same proprietary notices which appear on and in the Software.

Prohibited Uses: Without obtaining prior written permission from CUE, You may not (a.) use, copy, modify, alter, or transfer the Software or documentation except as expressly provided in this License; (b.) translate, disassemble, decompile, reverse program or otherwise reverse engineer the Software and Firmware; (c.) sublicense or lease the Software or its documentation (d.) use this Software with any hardware other than products produced by CUE or in connection with applications being developed for CUE hardware; or (e.) use the Software in a multi-user, network, or multiple computer environment or in a rental, time sharing or computer service business. Without prejudice to any other rights, CUE may terminate this License if You fail to comply with its terms and conditions. In such event, You must immediately destroy all copies of the Software.

No Other Warranties: CUE DOES NOT WARRANT THAT THE SOFTWARE AND FIRMWARE IS ERROR FREE. CUE DISCLAIMS ALL WARRANTIES WITH RESPECT TO THE SOFTWARE AND FIRMWARE, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES OR LIMITATIONS OF HOW LONG AN IMPLIED WARRANTY MAY LAST, OR THE EXCLUSION OF LIMITATION OF INCIDENTAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM JURISDICTION TO JURISDICTION.

No Liability for Consequential Damages: IN NO EVENT SHALL CUE BE LIABLE TO YOU FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, OR INDIRECT DAMAGES OF ANY KIND ARISING OUT OF THE PERFORMANCE OR USE OF THE SOFTWARE, EVEN IF CUE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Label on Hardware: Use of this hardware and the software programs controlling this hardware is subject to the terms of the Software and Hardware License Agreements (the "License Agreements"). You should not use the software and hardware until you have read the License Agreements. By using the software and hardware, you signify that you have read the Licenses Agreements and accept their terms. The "License Agreement" is available at www.cuesystem.com.

Trademark Notice: CUE and the CUE logo are trademarks of CUE, a.s. in the United States and in other countries.

Notes

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

[illegible]

